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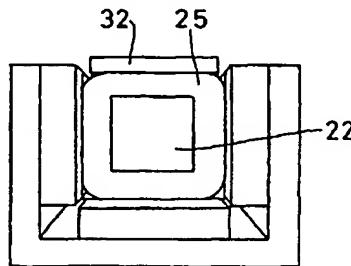
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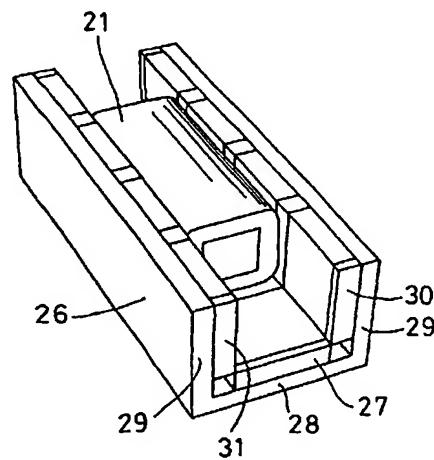
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*as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH,*

*[Continued on next page]***(54) Title: HIGH FORCE DENSITY LINEAR ELECTRIC MOTOR**

2a



2b

(57) **Abstract:** Linear electric motor or actuator comprising a movable part (21) consisting of a soft-magnetic core (22) which supports a set of electrically conductive turns (25), which movable part is slidably supported by a rail (26) which is provided with at least one set of permanent magnets (27, 30, 31) extending in longitudinal direction along the core's periphery. The magnets (27, 30, 31) produce a magnetic field that cooperates with the set of turns (27, 30, 31) via an air-gap. The soft-magnetic core (22) of the movable part (21) is made of soft-magnetic composite material. The electrically conductive turns (25) are wound around the periphery of the core (21) substantially perpendicularly to the centerline thereof, and at least two sets of magnets (27, 30, 31) are arranged along its periphery such that the at least two sets of magnets (27, 30, 31) are arranged at different angles to the core (22).